



IFWO

## RAW SEQUENCE LISTING

DATE: 09/29/2004

PATENT APPLICATION: US/10/674,087A

TIME: 11:12:58

Input Set : A:\MIT-0507.ST25.txt

Output Set: N:\CRF4\09292004\J674087A.raw

RNA

3 <110> APPLICANT: Chen, et al.,  
 5 <120> TITLE OF INVENTION: Compositions and Methods for Delivery of Short Interfering

6 and Short Hairpin RNA

8 <130> FILE REFERENCE: 0492611-0507

10 <140> CURRENT APPLICATION NUMBER: 10/674,087A

11 <141> CURRENT FILING DATE: 2003-09-29

13 <160> NUMBER OF SEQ ID NOS: 32

15 <170> SOFTWARE: PatentIn version 3.2

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 21

19 <212> TYPE: DNA

20 <213> ORGANISM: Artificial

22 <220> FEATURE:

23 <223> OTHER INFORMATION: siRNA targeted to GFP (sense strand)

25 <400> SEQUENCE: 1

26 ggcuaacgucc aggagcgcat t

21

29 <210> SEQ ID NO: 2

30 <211> LENGTH: 21

31 <212> TYPE: DNA

32 <213> ORGANISM: Artificial

34 <220> FEATURE:

35 <223> OTHER INFORMATION: siRNA targeted to GFP (antisense strand)

37 <400> SEQUENCE: 2

38 ugcgcuuccug gacguagcct t

21

41 <210> SEQ ID NO: 3

42 <211> LENGTH: 21

43 <212> TYPE: DNA

44 <213> ORGANISM: Artificial

46 <220> FEATURE:

47 <223> OTHER INFORMATION: siRNA targeted to influenza virus NP transcript (sense strand)

49 <400> SEQUENCE: 3

50 ggaucuuauu ucuucggagt t

21

53 <210> SEQ ID NO: 4

54 <211> LENGTH: 21

55 <212> TYPE: DNA

56 <213> ORGANISM: Artificial

58 <220> FEATURE:

59 <223> OTHER INFORMATION: siRNA targeted to influenza virus NP transcript (antisense

60 strand)

62 <400> SEQUENCE: 4

63 cuccgaagaa auaagaucct t

21

66 <210> SEQ ID NO: 5

67 <211> LENGTH: 21

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68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial
71 <220> FEATURE:
72 <223> OTHER INFORMATION: sirna targeted to influenza virus PA transcript (sense
strand)
74 <400> SEQUENCE: 5
75 gcaauugagg agugccugat t 21
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 21
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial
83 <220> FEATURE:
84 <223> OTHER INFORMATION: sirna targeted to influenza virus PA transcript (antisense
85 strand)
87 <400> SEQUENCE: 6
88 ucaggcacuc cucaauuget t 21
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 21
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial
96 <220> FEATURE:
97 <223> OTHER INFORMATION: sirna targeted to infuenza virus B-1 transcript (sense
strand)
99 <400> SEQUENCE: 7
100 gaucuguucc accauugaat t 21
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial
108 <220> FEATURE:
109 <223> OTHER INFORMATION: sirna targeted to influenza virus PB-1 transcript (antisense
110 strand)
112 <400> SEQUENCE: 8
113 uucaauuggug gaacagauct t 21
116 <210> SEQ ID NO: 9
117 <211> LENGTH: 21
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial
121 <220> FEATURE:
122 <223> OTHER INFORMATION: sirna targeted to influenza virus NP transcript (sense
strand)
124 <400> SEQUENCE: 9
125 uagagagaau ggugcucuct t 21
128 <210> SEQ ID NO: 10
129 <211> LENGTH: 21
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial
133 <220> FEATURE:
134 <223> OTHER INFORMATION: sirna targeted to influenza virus NP transcript (antisense
135 strand)
137 <400> SEQUENCE: 10
138 gagagcacca uucucucuat t 21

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141 <210> SEQ ID NO: 11
142 <211> LENGTH: 21
143 <212> TYPE: DNA
144 <213> ORGANISM: siRNA targeted to influenza virus M transcript (sense strand)
146 <400> SEQUENCE: 11
147 ccgaggucga aacguacgut t                                     21
150 <210> SEQ ID NO: 12
151 <211> LENGTH: 21
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial
155 <220> FEATURE:
156 <223> OTHER INFORMATION: siRNA targeted to influenza virus M transcript (antisense
strand)
158 <400> SEQUENCE: 12
159 acguacguuu cgaccucggt t                                     21
162 <210> SEQ ID NO: 13
163 <211> LENGTH: 21
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial
167 <220> FEATURE:
168 <223> OTHER INFORMATION: siRNA targeted to influenza virus PB-1 transcript (sense
strand)
170 <400> SEQUENCE: 13
171 caggauacac cauggauact t                                     21
174 <210> SEQ ID NO: 14
175 <211> LENGTH: 21
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial
179 <220> FEATURE:
180 <223> OTHER INFORMATION: siRNA targeted to influenza virus PB-1 transcript (antisense
181 strand)
183 <400> SEQUENCE: 14
184 guauccaugg uguauccugt t                                     21
187 <210> SEQ ID NO: 15
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <223> OTHER INFORMATION: shrRNA targeted to influenza virus NP transcript (sense
portion)
195 <400> SEQUENCE: 15
196 ggaucuuauu ucuueggaga                                     20
199 <210> SEQ ID NO: 16
200 <211> LENGTH: 20
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <223> OTHER INFORMATION: shrRNA targeted to influenza virus NP transcript (antisense
206 portion)
208 <400> SEQUENCE: 16
209 ucuccgaaga aaauagaucc                                     20
212 <210> SEQ ID NO: 17

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```

213 <211> LENGTH: 57
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
influenza
219     virus NP transcript.
221 <400> SEQUENCE: 17
222 tggatcttat ttcttcggag attcaagaga tctccgaaga aataagatcc ttttttc           57
225 <210> SEQ ID NO: 18
226 <211> LENGTH: 61
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial
230 <220> FEATURE:
231 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
influenza
232     virus NP transcript
234 <400> SEQUENCE: 18
235 tcgagaaaaa aggatcttat ttcttcggag atctcttgaa tctccgaaga aataagatcc           60
237 a                                           61
240 <210> SEQ ID NO: 19
241 <211> LENGTH: 55
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
influenza
247     virus PB1 transcript
249 <400> SEQUENCE: 19
250 tgatctgttc caccattgaa ttcaagagat tcaatggtgg aacagatctt ttttc           55
253 <210> SEQ ID NO: 20
254 <211> LENGTH: 59
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial
258 <220> FEATURE:
259 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
influenza
260     virus PB1 transcript
262 <400> SEQUENCE: 20
263 tcgagaaaaa agatctgttc caccattgaa tctcttgaat tcaatggtgg aacagatca           59
266 <210> SEQ ID NO: 21
267 <211> LENGTH: 56
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial
271 <220> FEATURE:
272 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
respiratory
273     syncytial virus transcript
275 <400> SEQUENCE: 21
276 tgcgataata taactgcaag attcaagaga tcttgcagtt atattatcgt tttttc           56
279 <210> SEQ ID NO: 22
280 <211> LENGTH: 60
281 <212> TYPE: DNA

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282 <213> ORGANISM: Artificial

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```

284 <220> FEATURE:
285 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
respiratory
286     syncytial virus transcript
288 <400> SEQUENCE: 22
289 tcgagaaaaa acgataatat aactgcaaga tctcttgaat cttgcagtta tattatcgca      60
292 <210> SEQ ID NO: 23
293 <211> LENGTH: 19
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <223> OTHER INFORMATION: siRNA targeted to respiratory syncytial virus transcript
(sense
299     strand)
301 <400> SEQUENCE: 23
302 cgataatata actgcaaga      19
305 <210> SEQ ID NO: 24
306 <211> LENGTH: 19
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial
310 <220> FEATURE:
311 <223> OTHER INFORMATION: siRNA targeted to respiratory syncytial virus transcript
312     (antisense strand)
314 <400> SEQUENCE: 24
315 tcttgcagtt atattatcg      19
318 <210> SEQ ID NO: 25
319 <211> LENGTH: 55
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial
323 <220> FEATURE:
324 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
influenza
325     virus PA transcript
327 <400> SEQUENCE: 25
328 tgcaattgag gagtgcctga ttcaagagat caggcactcc tcaattgctt ttttc      55
331 <210> SEQ ID NO: 26
332 <211> LENGTH: 59
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial
336 <220> FEATURE:
337 <223> OTHER INFORMATION: oligonucleotide for construction of shRNA targeted to
influenza
338     virus PA transcript
340 <400> SEQUENCE: 26
341 tcgagaaaaa agcaattgag gagtgcctga tctcttgaat caggcactcc tcaattgca      59
344 <210> SEQ ID NO: 27
345 <211> LENGTH: 9
346 <212> TYPE: DNA
347 <213> ORGANISM: Artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: loop sequence for shRNA
352 <400> SEQUENCE: 27
353 uucaagaga      9

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 09/29/2004  
PATENT APPLICATION: US/10/674,087A      TIME: 11:12:59

Input Set : A:\MIT-0507.ST25.txt  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28

Seq#:29,30,31,32



**VERIFICATION SUMMARY**

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PATENT APPLICATION: **US/10/674,087A**

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Input Set : **A:\MIT-0507.ST25.txt**

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